SOIL INVESTIGATION REPORT OF FORMER UST LOCATION



PREPARED FOR

FRIZE CORPORATION
CITY OF INDUSTRY, CALIFORNIA

PREPARED BY

GEOCON ENVIRONMENTAL CONSULTANTS, INC. 624 SOUTH GRAND AVENUE, SUITE 2900 LOS ANGELES, CALIFORNIA 90017-3330

PROJECT NUMBER: A8047-06-01

DECEMBER 1999



ENVIRONMENTAL CONSULTANTS



GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS



Project No. A8047-06-01 December 3, 1999

VIA FACSIMILE AND U.S. MAIL

Paul Cyphers Frize Corporation 239 8th Avenue City of Industry, California 91746

Subject:

SHULTZ STEEL FACILITY 5321 FIRESTONE BOULEVARD SOUTH GATE, CALIFORNIA

SOIL INVESTIGATION REPORT FOR FORMER UST LOCATION

Dear Mr. Cyphers:

Geocon Environmental Consultants, Inc. (Geocon) has conducted a soil investigation at the subject property at the location of two former underground storage tanks and associated fuel pumps in accordance with the County of Los Angeles Department of Public Works, Environmental Programs Division closure report requirements and Geocon's proposal dated November 4, 1999. The subject property is located at 5321 Firestone Boulevard in the City of South Gate, California and is occupied by a steel manufacturing company.

The accompanying report summarizes the results of our soil sampling activities performed at the subject property. Geocon's environmental consulting services included the advancement of three soil borings to approximately 30 feet below ground surface (bgs), the collection of soil samples from each boring location, and chemical testing of soil samples. Should you have any questions or comments regarding the information presented in the report, or if Geocon may be of further service, please contact the undersigned at (213) 538-1282 at your convenience.

Sincerely,

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Robin J. Ferber, RG, REA Senior Managing Geologist

KMG:RJF:dmc

(3) Addressee

Karen M. Gale

Senior Staff Geologist

ROBIN J. FERBER

ex*P 7/61* No.5756

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SOIL INVESTIGATION REPORT

1. INTRODUCTION

This report presents the results of a soil investigation performed by Geocon Environmental Consultants, Inc. (Geocon) on behalf of Frize Corporation (Frize), for two former underground storage tanks (USTs) and associated fuel dispensers located at 5321 Firestone Boulevard in South Gate, California (the "subject property"). Geocon's environmental consulting services were performed to evaluate if the soil beneath the former USTs and fuel dispensers has been impacted by gasoline or diesel fuel constituents. The work was performed at the subject property in accordance with the County of Los Angeles Department of Public Works, Environmental Programs Division (LADPW) closure report requirements and Geocon's proposal dated November 4, 1999.

The environmental consulting services described in this report consist of the advancement of three exploratory soil borings to a depth of approximately 30 feet below ground surface (bgs), the collection of soil samples from each boring location, and laboratory testing. As requested by the LADPW, the investigation was performed to assess for the presence of total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) in the vicinity of the former USTs and fuel dispensers.

1.1. Site Location/Description

The subject property is located at 5321 Firestone Boulevard in South Gate, California. The subject property is located on the northeast corner of the intersection of Firestone Boulevard and Rayo Avenue and is bound by Reisner Way to the north and the Los Angeles River and the 710 Freeway to the east. The subject property is occupied by a steel manufacturing facility (Shultz Steel) which is undergoing construction. The land-use in the area of the subject property appears to be industrial. The location of the subject property is depicted on the Vicinity Map, Figure 1.

The subject property consists of office buildings along Rayo Street, a driveway entrance and parking area off Reisner Way, and a number of large industrial buildings used in the steel manufacturing process. The USTs and fuel dispensers were formerly situated on the northern side of a newly constructed steel manufacturing building in the middle portion of the subject property.

1.2. Background

Geocon understands that in 1998, two 10,000-gallon USTs and two fuel dispensers were removed to allow for the construction of the new steel manufacturing building and were relocated to a new location on the subject property. According to Mr. Cyphers of Frize Corporation, the USTs, which were used to

store unleaded gasoline and diesel fuel and were installed at the property in 1990. Reportedly soil sampling was conducted at the time of the UST removal under the guidance of the Los Angeles City Fire Department; however, the LADPW (the lead regulatory agency for South Gate) required additional confirmatory soil sampling and chemical testing be conducted to obtain closure for the former USTs and fuel dispensers.

1.3. Purpose and Scope of Services

The purpose of the environmental consulting services performed by Geocon was to collect soil samples and assess for the presence of TPHg, TPHd, BTEX and MTBE in the soil beneath the former USTs and fuel dispensers at the subject property.

2. SITE PHYSIOGRAPHY, GEOLOGY, AND HYDROGEOLOGY

The subject property is located approximately 105 feet above mean sea level in an area where the surface topography slopes gently to the southeast (USGS, 1964). The Los Angeles River is located approximately 250 feet to the east. The Los Angeles River flows to the south of the subject property and empties into the Alamitos Bay approximately 14 miles south of the subject property.

The subject property is underlain by Quaternary-age alluvium deposits of clay, silt, sand and gravel (California Division of Mines and Geology, 1961). Soils encountered during drilling at the subject property consisted of silt, clay, and fine-grained sand.

The subject property is located within the Central Basin Pressure Area, a portion of the Central Basin which is a subbasin of the Coastal Plain groundwater basin (CDWR, 1961). The sediments include Recent-age alluvium, the Lakewood Formation, and the San Pedro Formation. The Recent-age alluvium covers most of the Central Basin Pressure Area and contains the Semiperched aquifer consisting of sands and gravels, the Bellflower aquiclude composed mostly of clay and silt, and the Gasper aquifer consisting of coarse sand and gravel (CDWR, 1961). The Recent-age alluvium and underling deposits of Lakewood Formation are generally flat lying. The San Pedro Formation unconformable underlies the Lakewood Formation throughout the Central Basin Pressure Area and is moderately folded. The Central Basin Pressure Area is controlled by the South Gate-Santa Ana depression and the Newport-Inglewood Uplift.

During this investigation, groundwater beneath the subject property was encountered at a depth of approximately 30 feet below ground surface.

3. FIELD ACTIVITIES

3.1. Pre-Fieldwork Activities

Prior to commencing field operations, the proposed soil boring locations were field-marked and Underground Service Alert (USA) (Ticket Number 607 957) was contacted on November 16, 1999 to notify public utility companies in the area to mark the locations of their subsurface utilities. Subsurface utilities were not identified by USA in the vicinity of the proposed boring locations. Strongarm Environmental Field Services (Strongarm) of Norwalk, California was retained to provide hydraulic direct-push drilling and sampling activities.

Prior to conducting the fieldwork, a Health and Safety Plan was prepared for the use of Geocon employees and subcontractors during the drilling activities. A health and safety meeting was held with Strongarm personnel prior to commencing the fieldwork.

Prior to drilling activities, Frize Corporation removed the steel plates from the floor of the building and cored three holes in the concrete at the pre-marked drilling locations. The concrete slab thickness ranged from approximately 1 foot to 1.5 feet thick in boring locations B-1 and B-2, respectively.

3.2. Installation of Exploratory Soil Borings

On November 16, 1999, Ms. Karen Gale, Senior Staff Geologist with Geocon, observed the advancement of exploratory soil borings B-1 through B-3 using a hydraulically driven, direct-push probe in the approximate locations presented on Figure 2.

Borings B-1 and B-3 were drilled at the northern and southern ends of the former UST cavity and boring B-2 was drilled in the vicinity of the former fuel dispensers. As requested by the DPW, soil samples were collected at 15, 20, and 29 or 30 feet below the base of the concrete slab. Soil samples were not collected at a depth greater than 30 feet, due to the presence of groundwater at approximately 29 to 31 feet below the base of the concrete slab.

The soil samples were collected in new clean acetate liners fitted into a Geoprobe sampler. Upon retrieval of the soil samples, the acetate liners were cut, capped, labeled, and placed inside a cooler chilled with ice for delivery to the laboratory. The soil samples were labeled with the project number, sample location, time, collector initials, and date of collection. The remainder of the soil in the acetate sleeves was used to describe the soil and to monitor for the presence of organic vapors with the PID. The soil was monitored for organic vapors with a PID by placing the soil in a sealed plastic bag and inserting the PID probe after approximately 5 minutes. The soil samples were described using the Unified Soil Classification System (USCS) and included moisture content, density, color, soil type, and any

distinctive features. The soil descriptions and the organic vapor concentrations were recorded on the boring logs (Appendix A).

Prior to each use, the drive rods and soil sampling equipment were cleaned using a brush and rinsing in successive baths of an AlconoxTM solution, clean tap water, and de-ionized water.

Following sampling activities, the borings were backfilled with hydrated bentonite chips and finished off by Frize Corporation with concrete to match the existing paved surface.

4. LABORATORY TESTING

The soil samples were transported to a California EPA-certified laboratory (Advanced Technology Laboratories, Signal Hill, California) under chain-of-custody documentation in a cooler chilled with ice. The soil samples were analyzed for TPHg, BTEX, and MTBE using EPA Method 8015B/EPA 8020A, and for TPHd using EPA Method 8015B Modified.

5. RESULTS OF INVESTIGATION

5.1. Field Observations

Soils encountered beneath the concrete slab (ranging from one-foot to one and a half feet thick) at the subject property consisted of fine-grained sand to a depth of approximately 17 feet bgs. From approximately 17 to 29 bgs, a clay layer was observed. Saturated silt was observed in boring B-3 at approximately 29 feet bgs and saturated fine-grained sand was observed in borings B-1 and B-2 at approximately 31 feet bgs. Due to the presence of the saturated sediments encountered during drilling, the borings were terminated at approximately 29 to 31 feet bgs. Logs of borings prepared for the boreholes are presented in Appendix A.

5.2. Chemical Test Results

The official laboratory report and chain-of-custody documentation are presented in Appendix B. A summary of the soil sample analytical laboratory results is presented in Table 1.

TPHg was detected in two of the soil samples (B-2-15' and B-3-15') at depths of 15 feet below the base of the concrete slab. The samples contained several unknown peaks that did not match the gasoline pattern. However, the quantitation was based on the gasoline standard. The maximum concentration of TPHg was detected in soil sample B-2-15' at 80 milligrams per kilogram (mg/kg).

Benzene was detected in one soil sample (B-3-15') at a concentration of 15 micrograms per kilogram (ug/kg). Toluene was not detected at or above laboratory detection limits (i.e. ND) in any of the soil samples. Ethylbenzene was detected in one soil sample (B-2-15') at a concentration of 346 ug/kg. M/p-xylene and o-xylene were detected in two soil samples (B-2-15' and B-3-15') at maximum concentrations of 1,320 ug/kg and 346 ug/kg, respectively in B-2-15'.

MTBE was detected in four of the soil samples (B-2-15', B-2-20', B-3-15', and B-3-20') at concentrations ranging from 360 to 4250 ug/kg in samples B-2-15' and B-3-15' respectively.

TPHd was not detected at or above laboratory detection limits in any of the soil samples analyzed.

6. CONCLUSIONS

Geocon performed a soil investigation beneath two USTs and fuel dispensers at the Shultz Steel facility located at 5321 Firestone Boulevard in South Gate, California. The results of this soil investigation indicate the following:

- Subsurface soil beneath the subject property consists of fine-grained sand to a depth of
 approximately 17 feet bgs, underlain by clay to a depth of approximately 30 feet bgs, followed by
 saturated silt and fine-grained sand.
- Borings were terminated at approximately 29 to 31 feet bgs due to the presence of groundwater at this depth.
- Analytical results of the soil samples indicate that the soil encountered in borings B-2 and B-3 is
 impacted with TPHg, BTEX, and MTBE to a depth of 20 feet below the base of the concrete slab.
 Hydrocarbon impacted soil was not detected in the soil samples collected from boring B-1. TPHd
 was not detected at levels above laboratory detection limits in any of the soil samples.
- Gasoline hydrocarbon constituents have impacted soil in borings B-2 and B-3 at depths between 15 and 20 feet bgs. A clay layer, which was encountered at approximately 17 feet bgs, may be impeding the downwards flow of fuel hydrocarbon constituents from impacting the deeper soil (i.e., the groundwater beneath the subject property). However it is not known if groundwater has been impacted by the gasoline constituents detected in the soil samples.
- The fuel hydrocarbon impacted soil has been horizontally delineated to the south of the former USTs and fuel dispensers.

Based on the results of this soil investigation, it is evident that the former gasoline UST or fuel dispenser had a release on the subject property. Geocon recommends that Frize should report this release to the DPW and submit this report with an UST Unauthorized Release (Leak)/Contaminated Site Report form to the DPW for their recommendation.

7. REPORT LIMITATIONS

This report has been prepared exclusively for Frize. Frize should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions as presented in this report are predicated on the results of the limited soil sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence or consultation either expressed or implied. Geocon strove to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

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We trust this report provides the Frize with the information you require at this time. Should you have any questions regarding the information presented in this report, please call the undersigned at (213) 538-1282.

GEOCON ENVIRONMENTAL CONSULTANTS, INC.

Robin J. Fertler, R.G., R.E.A. Senior Managing Geologist

ROBIN J. FERBER

No. 5756

No. 5756

Karen Gale

the Mr- Gale

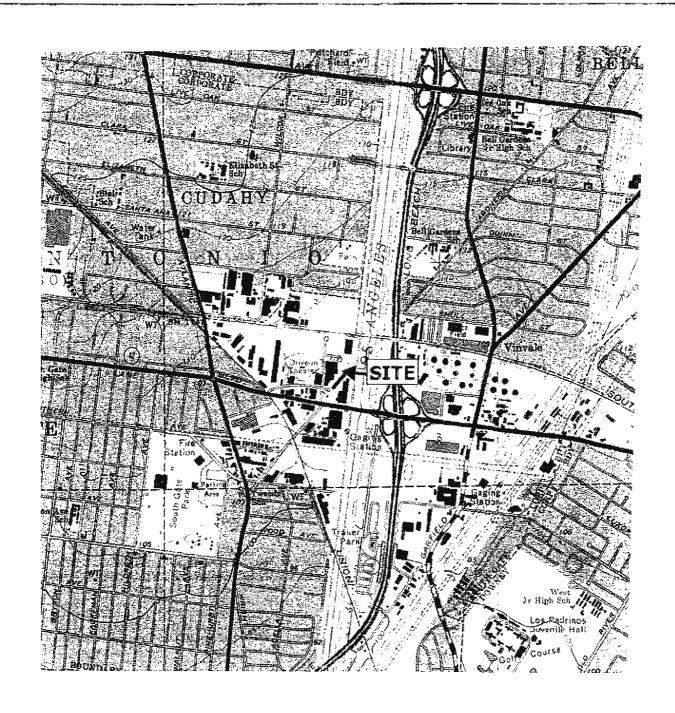
Senior Staff Geologist

8. REFERENCES

California Division of Mines and Geology, 1962, Geologic Map of California, Long Beach Sheet (reprinted 1978).

California Department of Water Resources, Southern District, 1961, Planned Utilization of the Ground Water of the Coastal Plain of Los Angeles County, Appendix A, Groundwater Geology (reprinted 1990).

United States Geological Survey, 1964, South Gate, California, 7.5 Minute Quadrangle (Revised 1988).



SOURCE: USGS, SOUTH GATE, CALIFORNIA 7.5' TOPOGRAPHIC QUADRANGLE, 1964 (PHOTOREVISED 1988)



SCALE: 1:24,000



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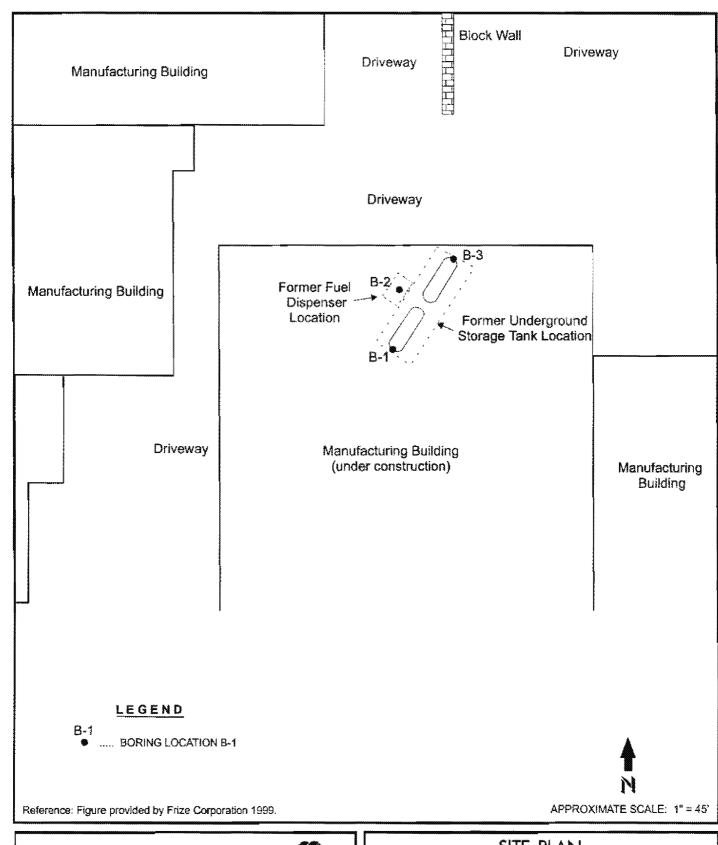
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VICINITY MAP

SHULTZ STEEL 5321 FIRESTONE BOULEVARD SOUTH GATE, CALIFORNIA

DATE - DEC. 1999

PROJECT NO. A8047 - 06 - 01 FIG. 1







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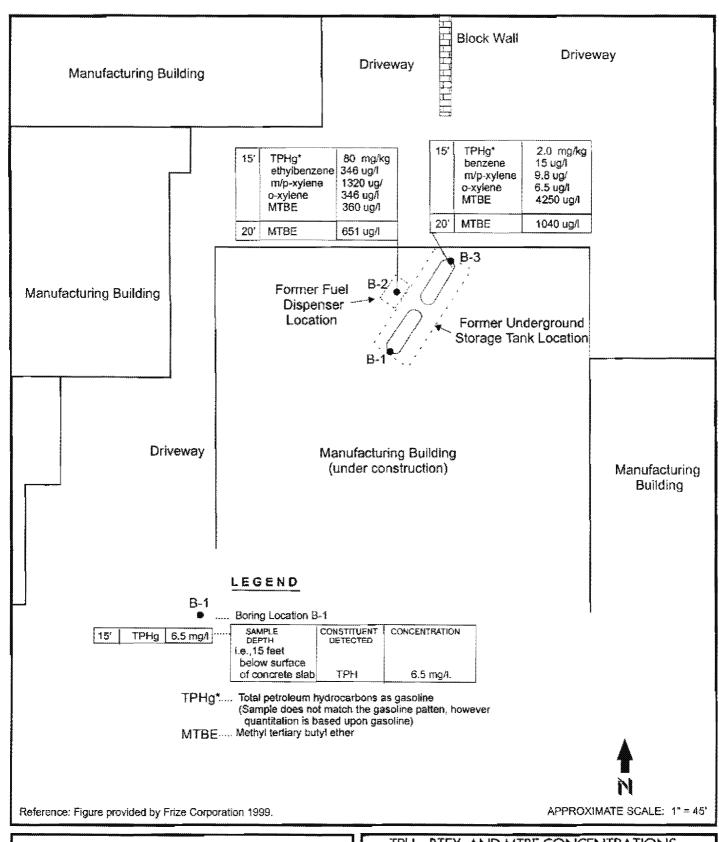
SITE PLAN

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

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-01 FIG. 2

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ENVIRONMENTAL CONSULTANTS INCORPORATED 624 S. GRAND AVE - STE 2900 - LOS ANGELES, CA. 90017 - 3330 PHONE 213 538-1282 - FAX 213 538-1283

KMG **DSK / E0000** TPHg, BTEX, AND MTBE CONCENTRATIONS DETECTED IN SOIL

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DEC. - 1999 | PROJECT NO. A8047 - 06 - 01 DATE: FIG. 3

TABLE 1
SUMMARY OF ANALYTIAL LABORATORY SOIL SAMPLE RESULTS

Soil Sample Nos.	Depth (feet below slab)	TPHg (mg/kg)	THPd (ug/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl- benzene (ug/kg)	M/p- xylene (ug/kg)	o-xylene (ug/kg)	MTBE (ug/kg)
B-1-15'	15	ND	ND	ND	ND	ND	ND	ND	ND
B-1-20'	20	ND	ND	ND	ND	ND	ND	ND	ND
B-1-30'	30	ND	ND	ND	ND	ND	ND	ND	ND
B-2-15'	15	80*	ND	ND	ND	346	1320	346	360
B-2-20'	20	ND	ND	ND	ND	ND	ND	ND	651
B-2-30'	30	ND	ND	ND	ND	ND	ND	ND	ND
B-3-15'	15	2.0*	ND	15	ND	ND	9.8	6.5	4250
B-3-20'	20	ND	ND	ND	ND	ND	ND	ND	1040
B-3-30	30	ND	ND	ND	ND	ND	ND	ND	ND

Explanation:

ND

= Not detected at or above laboratory instrument detection limits

TPHg

= Total petroleum hydrocarbons as gasoline

TPHd

= Total petroleum hydrocarbons as diesel

MTBE

= Methyl tertiary butyl ether

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= Sample does not match gasoline pattern. However quantitation is based upon gasoline.



B-1 SHEET 1 OF 2 FEET NOTES DESIGN READING RESISTANCE BLOWS / FT ON __ GRAPHIC SAMPLE SAMPLE DRILLING LITHOLOGIC DESCRIPTION WELL CONDITIONS Moist, medium brown, silty very fine-0.2 hammer 10 grained SAND (SP) 11 12 13 14 15 Moist, medium brown, fine-grained 8-1-15 0.2 hammer 0900 SAND (SP), trace silt 16 17 18 19 Moist, dark brown, moderate plasticity CLAY (CL), micaceous

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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BORING B-1

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DATE: NOV. 1999

PROJECT NO. A8047 - 06 - 01

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NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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BORING B-1

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DATE: NOV. 1999 PRO.

PROJECT NO. A8047 - 06 - 01

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NOTES ON DRILLING CONDITIONS	WELL DESIGN	RECOVERY %	RESISTANCE BLOWS / FT	PID READING P	SAMPLE TYPE	SAMPLE NO./TIME	DEPTH IN FEET	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
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							20		Moist, dark brown, moderate plasticity CLAY (CL), micaceous

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED, IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES

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BORING B-2

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DATE: NOV. 1999 PROJECT NO. A8047 - 06 - 01

NOTES ON DRILLING CONDITIONS	WELL DESIGN	RECOVERY %	RESISTANCE BLOWS / FT	PID READING PPM	SAMPLE TYPE	SAMPLE NO./TIME	DEPTH IN FEET	GRAPHIC LOG	B-2 SHEET 2 OF 2
					hammer	t	21 22 23 24 25 26 27 28 29 30 31 32 31 32 33 34 35 36 37 38 39 40		Moist, dark brown, moderate plasticity CLAY (CL), micaceous Saturated, clive-grey, fine-grained SAND (SP) Boring terminated at 30.5 feet below the surface of the concrete slab.

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED, IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES

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BORING B-2

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DATE: NOV. 1999

PROJECT NO. A8047 - 06 - 01

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NOTES ON DRILLING CONDITIONS	WELL DESIGN	RECOVERY %	RESISTANCE BLOWS / FT	PID READING P	SAMPLE TYPE	SAMPLE NO./TIME	DEPTH IN FEET	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
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							32 33 34 35 36 37 38 39		

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED, IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES

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BORING B-3

SHULTZ STEEL 5321 FIRESTONE BOULEVARD LOS ANGELES, CALIFORNIA

DATE: NOV. 1999 | PROJECT NO. A8047 - 06 - 01

APPENDIX B

Client:

Gaocon Environmental

Attn:

Karen Gale

Cliont's Project:

Shultz Siccl, #A8047-06-01

11/16/1999 SOIL.

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Dilution !	Dilution Factor		1.0		1.0		1.0		1.0		50	
ANALYTE	MDL	Units	DLR	Results	DLR	Results	DER	Results	DLR	Results	DLR	Results
Jasoline -	1	mg/Kg	1	ND	1	ND	1	סא	1	ND.	50	2 0^
30nzene		ugiKg	3	ND	5	ND	5	ND		ND	· · · · · · · · · · · · · · · · · · ·	ND
լ ֆ. լացր e	1 5	ug/Kg	5	. NO	5	ND	5	OΑ	5	ND.	5*	CM
Ethylbenzona	\$	υς/Κη		ND	5	ND	5	NO		OM		346
n/p-Xy'ene	5	ugaKa	5	ND	5	ND	5	ND	5	ND	250	1320
>-Xy'ens	5	пажа	5	NO	5	ND	5	NO	5	<u>ND</u>	250	346
MIDE	3	ug/Kg	5	ND	5	ND	5	ND	5	סא	250	360

- LA CANADA DE LA CANADA DELA CANADA DE LA CANADA DELA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DELA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DE LA CANADA DELA CANADA DE LA CANADA DELA CANADA DE	12:021:0	SHOPE ON IT LANDED IN PARTIE		www.congogoconndddillo.lo	
Lab No :	39764-004	39764-004 M5	19764-004 M60		
QC Batch Number:	1998G20S312	1983G205312	1998 G205312		
ANALYTE	DLA Rosults	Results %Rec.	Results %Rec.	RPD % Rec. Limits	RPD Limital Amount
Gasolina	1 100	3.8 i 75	3.4 68	9 41-151	21 5
Genzene	s NO	30 100	27 95	11 42-132	15 28
Taluens	\$ NO	155 96	158 100	2 42-132	15 156

MDL . Mathod Detection Limit

ND = Not Detected (Bolow DLR)

A Sample docs not match gasoline pattern. However quantilation is based upon gasoline

standard.

DLR = MDL x Dilution Factor

* Dilution Factor=1.0

Approved/Reviewed By:

Complan Persaud

Department Supervisor

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.

The cover letter is an integral part of this analytical report.

Clioat:

Geocon Environmental

5 ug/Kg

Attn:

Karen Gale

Client's Project:

Shuttz Steel, #A8047-06-01

Date Rocelved:

11/16/1989

Matrix:

MIBE

SOIL

			· 6	PA Meth	ed 8015B G	acoline]/i	EPA MOROA	*			i.	
100 (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lab No.	PROPERTY AND ADDRESS OF THE PROPERTY A	39756-005	P.: duinuuppp@dddddaa	39750-036	barranan bekonsteleligi e-eyo	39764-007	0.44 mmccon4999000	39730-0C	8	29756-009	
Client Sa	mple LO:	den en e	8.2.20		B-2-30'		B-3-15"		8-3-20'	St. Americanian manager (************************************	B-3-29'	***************************************
Qate	Sampled:		11/16/1999		11/14/1999		11/16/1988		11/10/19:	38	11/16/1009	Wester and American
<u> </u>	Barch #:		1998 G 20 S	312	1994G26S1	12	1998G206:	112	1998 (320	5312	1998G20S	312
Date	Date Analyzod:			***************************************	11/22/1999		11/10/1999	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	11/22/109	96	11/22/1999	
Analysi initials:			MÜ		MO		NO		MO		MO.	
Dilatic	in Factor:		1.0		1,0		1.0		1.0		1.0	
ANALYTE	MDL	Linits	DLA	Resuts	DLR	Rosults	DLR	Results	DLR.	Plesuits_	DLR	Results
Gasolino	1	mg/Kg	1	ND	5	NO	1	2.0^	1	ND	1	ND
Benzene		uukn		OK	5	ND	5	15		ND	5	NO
Tokione		lug/Kg	5	ND	5	ND	5	ND	5	ND	. 5	NO.
Strylbenzene		Jug/Kg	. 5	QN	i s	ND	5	ND	5	ND	5	NO
m/p-Xylen¢		wg/Kg	5	ND	5	CM		5.5	5	ND	9	ND
o-Xvlene	7	ua/Ka	5	NO	5	ND	5	8.6	8	NO		ND

	niew.	X PONKO B	no matrix of	ike Diabi	MORE REDGE	7 PF	A			
Lab Ng.;	39754-004		39764-004 1	VIS.	39764-004	MSD				
QC Balch Number:	1998G20S3	12	1339CS021	12	1498G20S	112				
ANALYTE	DLR	Results	Results	%Rec.	Results	%Roc.	RPD %	Rec. Limits	RPD Limits	Amount
Gasolina	1 1	NO	3.5	75	3,4	G8	9	41:151	21	Đ,
Bunzens	5	. ND	30	105	27	95	11	42-132	15	26
Toluene	5	ND	155	\$8	159	100	2	42-132	151	158

ND

MOL # Method Detection Limit

* Dilution (actor=\$0

ND = Not Detected (Below DLR) DLR - MOL x Dilution Factor

250"

4250

1040

ND

Approved/Reviewed By:

Complon Persoud

Department Supervisor

Original sample result may be below detection limit. The result was used for % Recovery calculation purposes only.

The cover letter is an integral part of this analytical report.

^{*} Sample door not match gasoline pottern. However quantitation is based upon gasoling standard.

Client:

Geocon Environmental

Altn:

Karen Galo

Client's Project:

Shukz Sicci, #A8047-08-01

Date Receiven: Matrix: 11/15/1999

SOIL

	Lab No.:		39764-0	04 Dup,	LCS							
Client Sa	mole (.D.:		B-2-15		+6						Merce's amount / -	
Date	Sampled:		11/10/1	999	+0				KNIM I DOGGA TI		ARREST TO STATE OF THE STATE OF	
00	Batch #:		139862	05312	1998G20	\$312					***************************************	
Date .	Analyzed:		11/19/1	999	11/19/199	9						
Analy	Analyst initials:				MO							
Oiluti:	Oilution Factors				1.0			ļ			A A MARKON MARKAN TA	
ANALYTE	MDL	ปก!!s	DLR	Results	Limits	% Rec	DLR	Results	DLR	Rosu is	DLR	Results
Gasolino	1	mg/Kg	50	894	38-146	60	W(00)-3				Manage of the same	
Benzene	5	ug/Kg	51	CM	41-145	123		appropriate to the second				
Tojuene	. 6	ug/Kg	5*	NO	41-145	98						1
<u>Eihyibenzena</u>	5	ug/Kg	250	1340	41-145	113						L
m/p-Xylene	5	ug/Kŋ	250	4650	41-145	99	***************************************					
o-Xylene	5	ug/K	250	1360	41-145	113						
MißE	5	ug/Kg	250	443	42-165	54						1

THE PARTY OF THE P											
Leb No.:	39764-	004	39754-00	4 MS	39784-0 0	4 MSD					
QC Baich Number:	1998G	205312	1898 G 20	6312	2 1998G2G3312			, ,			
ANALYYE	DLR	Rosults	Results	MRec.	Results	₩Rec.	RPO %	Rec. Limits	RPD Limite	Amount	
Gasoline	1	NЭ	3.8	75	3,4	55	9	41-151	21		
(Bonzane	5	NO	30	106	27	ี มี5	11	42-132	15	20	
Toluene	5	ND	155	98	159	100	2	42-132	15	158	

MOL = Method Datection Limit

* Sample does not match gaseline pattern. However quantitation is based upon

ND = Not Delected (Below DLR)

DLR = VOL x Dilution Factor

gasoline pattern.
* Dilution Factors1,0

Approved/Reviewed By:

Compton Persaud

Department Supervisor

Original sample result may be below detection limit. The result was used for % Recovery culculation purposes only.

The cover lotter is an integral part of this analytical report.

Client:

Geocon Environmental

QC Batch #:

F998015DS559

Atin;

Karen Gale

Date Sampled:

Date Received:

11/16/99 11/16/99

Date Extracted:

11/22/99

Date Analyzed:

11/23/99

Client's Project:

Shults Steel, #A8047-06-01

Extraction Method:

3550B

Extraction Material:

Methylene

Matrix:

Soll

Chloride

Analyst Initials:

EK

Method 8015B (M)/TPH (Diesel)

Lab No.:	Sample ID:	Results, mg/kg	DLR, mg/kg	Dilution Factor
Method Blank	Anthre are	מא	10	1.0
39754-001	B-1-15'	ND	10	1.1
34764-002	B-1-20'	ND	10	1.1
39764-003	B-1-30'	ND	10	1.0
39764-004	B-2-151	ND ND	10	1.0
39764-005	B-2-20'	ND	10	1.(
39764-006	B-2-30°	ND	10	1.0
39764-007	B-3-15 ⁾	NO	10	·
39764-00 8	<u>13-3-20'</u>	ND	10	1.(
39764-009	B-3-29'	ND	10	1.6
			3	No. agraphic and the second se
Mil Sunnous	**************************************		i i	The state of the s
				\$ }-g
0.17 2. Annuary				A STATE OF THE STA

MDL = Method Detection Limit ND = Not Detected (Below DLR). DLR = MDL X Dilution Factor

Compton Persaud

Department Supervisor

Stiffe mediway and RPIA Seltanary Report

Method:

EPA ROIST

Date Extracted;

11/22/99

Analyst:

EK

Date Analyzed:

11/23/99

QC Batch:

P998015DS559

Matrix:

SOIL

NON-SPIKE SAMPLE:

DIESEL 39764-008

NON-SPIKE		MOTOR OIL			LNITS:		MG/KG					
ANALYTE	SAMPLE CONC.	SPK ADDED	<u>MS RESULT</u>	MSD RESULT	%MS REC	MMSD REC	REC Limit	KPD	RPD Limit			
DRISEL	ND ND	1000	927	931	93	93	40-140		37			
Motor Cil	ND	1000	681	717	68	72	40-140	δ.	37			
PERSONAL ASSESSMENT OF PROPERTY ASSESSMENT A			LANGERPART TO THE PART OF THE									
	HICKORIANIA ANTONIO MATERIA ANTONIO MATERIA ANTONIO MATERIA ANTONIO MATERIA ANTONIO MATERIA ANTONIO MATERIA AN	gazza mantanan birk ili ilik dineggija tergi ipin. p z ipin					7 F					
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internal 200 St Indoord State Control			мили и и и и и и и и и и и и и и и и и и	77.7 %			 		уммуфффффффффффффффффффффффффффффффффф			
				TO vibration to take the constraint of the const	1							
demand of the control	<u> </u>		gg historian									
SECRETORIA	The state of the s			1 magagage sur rerssmonnenannnannnannnnnnnnnnnnnnnnnnnnnnnnn		***************************************						
a town on the fire of the second construction		######################################			1	WA 11	***************************************	<u> </u>				
}		sk . W i et algegrege promisioness	**************************************	Management is the cure to be a second		·	The state of the s		34 A 42 1 5 200 000 000 000 000 000 000 000 000 0			
/ _{max}		, , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L	**************************************	<u></u>]			

Approved by:

Compton Persaud

Department Supervisor

		A. A. C.		CH	MIA	OF	CU:	STO	DΥ	RE(COL	RD				Mahaaaaa				1	Pg	<u></u>	, <u> </u>
1	Advance	l Technology							FOR I	_ABOF	IATO	RY US	E ON	LY:									
								•	thad o		•				9	anyle	Condi	on Upo	on Rece	sab)			
Laboratories			Batch #:		00 *				i	Malk-in Xxurier	f E		1 €	HILLE	O		YE	TNU	t, SE	AL E D			マロ 54
1510 E. 33rd Street P.O.F.				*					1	xxirier IPS]	21	FARS	PACE (Vr(")A1	Υſ	ΙΝΠ	ND S. OF SPLS			ICCC :	Y E-R [
S	lignal Hill, CA 90807		1	-						ED, EX	-		-		•								
	562) 989-4045 • FAX		₹		15699 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ATI. 🔟		T"	3, CONTAINER INTACT			Y-E	YETNI B PRESERVE			ED_	D Y C C					
	ient: Georgan El		Concultores,	Inc	Ackire	ss: 62	45	. Gr	and	. Av	٠	Ste.	290	0		ou#iBbdadaonn		7.6	1-12	(3)	53	3-12	82
Attn: Kaven Gale.								els,				CA	***************************************	23	p Code	. 90	017	FA	x(A	13)	238	-12	33
Pr	oject Name: Shulf	3 Steel.	Project	#: 1480				ampier	Ka	inted Neur rejn (E fa					(Sig	talt::e)						
Rei	aquaired by: (Synene and Pike	and your U.S.L.	D	ista : 11/16)	90	Tissus: Perceived by: (Separate and Protest Rame)									Date: 1/1/6/19 Time: 4:55								
Ref	inquished by: (S-paces and Price	alfame)		ato:		Time:		P ec ea	od Cy. (September 18	nd Printer	hame) ,	_			~~	***************************************	Ĺ	ate:	s of which the	-	llme:	free and the second
Rel	ingulahod by: (6-y-ver-endinis	ed Manuel	D	als:		Time:		Pascell	red by: s	Seretare e	vi Person	[farres]		***************************************	- 			Ų	ale:			Time:	
SH	IP TO LAB:	I hereby authorize ATI Project Mgr/Sub	L to perture the work indi	caled below:		Senti	Report T	0:	con the contract of the contra				italiais CCS Q				ル				-	***************************************	***************************************
1	T;	Karen G		11.16	90		Sayı	× €]		***************************************		-	us e	150	× 1^	620	بدائح	-					
	*	Printflac			<u> </u>	ł				· p		-] .											
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			Sgråler			City_			Siake_	2 ç		£	· · · · · ·									T	
Unless otherwise requested, all samples will be disposed 45 days Sample Archive/Disposal: Carboratory Standard Carboratory Standar					Circle o		(a/3)	//.	//				7./	//		CIRC	LE APP		ATE	1,,		vac	
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1	LAB USE ONLY: Batch #:	:	Sample Description				#\\$\\\$ \$\\\$						7/					\$\\ \}_	/ Co.	กไลเกอก	(s) (s)		भ ∏ :8
E M	Lab No.	Sam	aple I.D.	Date	Time							J /	/ 1	¥8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ /5		5 / TA	.T ∫#	Тур	e d	REI	MAKS
	39764- 601	B-1-15'	NOTE OF THE PROPERTY OF THE PR	II/Khn	900	DINI.					χ		X		1			1	: [[TX	P		
	- 007	B-1-20'		1 7	7.07										1		ĺ	1	4888			444Bhbharr	
	-003	B-1-30'	AND THE RESERVE OF THE PROPERTY OF THE PROPERT		9-20	The state of the s			İ	1 [- -		1	11		Πī	T		· engeriffe a state of the little in the lit
	- co4	B-2-15'	HERMAN AND AND AND AND AND AND AND AND AND A		9.50						11				7			11	\exists	<u> </u>	1		***************************************
mbr rougue	_ c\u 5	と-2-20'	——————————————————————————————————————		10-00	~		<u> </u>										Π	Ħ		\parallel		
	. 006	B-2-30' B-3-15' B-3-20' B-3-38'xc 29!												Ħ	1		7	П	il		1	f=#	. D. 10 HH 100-100-10-10-10-10-10-10-10-10-10-10-10
1	-007										Ш	-			<u> </u>	t	1		\top	1	1		- The second sec
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-	PQ4)-	12-3-38/x	629!		1.00			-		- <u> </u> -	`₩		1	村	1			寸	丁	少、	扩		HARM
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سأيست				. (Ememe	ncv		I Critic		$\overline{1}$	D≂ Urgent 3 Work				E= Routine 7 Workdays			-	reser ² reser	vative	:s:	. <u> </u>	L	
TAT starts 8 a.m. following day if TAT: A= Overnight ≤ 24 hr			WEXT WI														Halld NaHNO: Salaso. Cat'C						
Conta			ier Typos: T≃Tube	> V=VOA	L =1	iter f	Pint -	J≕Ja	- 8=	Tedlar	G=	Glass	P=F	las!ic	M=	Meta	1 2	Z=Z⊓{/	AC):	O=N	aOH	1=T	ła:S:O: